OIPE IAP81
FEB 19 2009
PATENT & TRADEMARK OFFICE

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:	Confirmation No.: 7884
Eva-Maria LEPPANEN, *et al.*	Art Unit: 2446
Application No.: 10/529,577	Examiner: Sulaiman NOORISTANY
Filed: March 30, 2005	Attorney Dkt. No.: 059643.00596

For: COMMUNICATION SYSTEM INCLUDING AT LEAST ONE USER AND AT LEAST ONE ENTITY TO WHICH PRESENCE INFORMATION ASSOCIATED WITH SAID AT LEAST ONE USER IS PROVIDED (as amended)

DECLARATION UNDER 37 C.F.R. § 1.131

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

We, Juha Mikael Kalliokulja and Mikko Aleksi Lonnfors, hereby declare and state:

1. We are two of the four inventors for the above-identified application, U.S. Patent Application Serial No. 10/529,577, filed on March 30, 2005, which claims priority to PCT/IB02/04381 application filed October 9, 2002.

2. We are employees of Nokia Corporation.

3. Nokia Corporation is the owner of the above-identified application ("Assignee"), by virtue of the Assignment recorded on March 30, 2005 at Reel 016892, Frame 0530, in the United States Patent & Trademark Office.

4. Prior to October 1, 2002, we conceived respective portions of the invention, as evidenced by the enclosed Invention Report, submitted September 20, 2002, describing the subject matter to be used in preparation of the PCT application from which the above-identified application claims priority. This document demonstrates that prior to October 1, 2008, we were in possession of the respective portions of the invention and were able to describe the invention so as to enable a person skill in the art to make and use the invention.

5. Prior to October 1, 2002, Eva-Maria Leppanen prepared and submitted the Invention Report, as evidence by the enclosed "Screen Shot" of the submission of the Invention Report, to Nokia Corporation. The Screen Shot provides support that the enclosed Invention Report was prepared prior to October 1, 2008. For example, the Screen Shot illustrates that the submission date of the Invention Report was September 20, 2002. Furthermore, the case reference number 39624 illustrated in the Screen Shot and the code number 39624 listed on page 1 of the Invention Report are the same. Moreover, the submission document shown in the top left corner of the Screen Shot is of the Invention Report. The Screen Shot also illustrates that we are the inventor of the PCT application from which the above-identified application claims priority.

6. A copy of the Invention Report and the Screen Shot illustrating submission of the Invention Report are enclosed. Upon diligent review and approval of the Invention Report, the PCT application was duly prepared. The Invention Report was used in preparation of the PCT application.

7. Given the completeness of the Invention Report, we can state that the invention disclosed in PCT Application No. PCT/IB02/04381 and U.S. Patent Application Serial No. 10/529,577 was invented prior to October 1, 2002.

8. Because U.S. Patent Publication No. 2004/0062383 to Sylvain ("Sylvain") was filed October 1, 2002 and published April 1, 2004, Sylvain is not available as prior art to any aspects of the above-identified application. Sylvain's filing date and publication date are after the date of the Invention Report relating to the above-identified application, September 20, 2002. Therefore, Sylvain does not qualify as prior art under any of the sections of 35 U.S.C. § 102.

9. The Invention Report effectively demonstrates that the present application was conceived before the filing date of Sylvain coupled with due diligence, from prior to filing date of Sylvain, until the claimed invention was filed as PCT application on October 9, 2002.

10. We affirm that all statements made herein are believed to be true and, further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the present application, or any patent issuing thereon.

Date: 11TH FEB 2009

Signed: _____
Juha Mikael KALLIOKULJU
Citizen of Finland

Date: _____

Signed: _____
Mikko Aleksi LONNFORS
Citizen of Finland

NOKIA

CONFIDENTIAL

INVENTION REPORT

Title of invention: Application ID in presence	**INVENTION REPORT RECEIVED** Code: 39624	Patent Committee:
THE DESCRIPTION OF THE INVENTION MUST BE ATTACHED	Place:	Date:
	Signature:	

Inventor's name, employee number, title and nationality: *)	Home Address: *)	Business Unit and cost centre:

Line Manager(s):	
Project : *)	Project Manager:
Office address: *)	
Phone: *)	Fax: *)
The invention becomes public on:	

I am/ We are the sole/ and original inventor(s) of this invention.

The company may, by virtue of applicable legislation, be entitled to full or partial rights to the invention. I/ We acknowledge my/ our obligation to sign as Inventor(s) all documents that may be required for protecting the invention in different countries.

Applicable to inventions made by inventors employed in FI, DK, DE and SE only.
Unless the inventor requests the Invention Report to be responded to within four (4) months from the date this Invention Report is received or such other period as the mandatory provisions of the applicable local law may otherwise require, the inventor consents to the right of the employer to use a reasonable period of time for the evaluation of the invention. A reasonable period of time may exceed four (4) months.
☐ *I/ We request that the Invention Report be responded to within four (4) months.*

Date:
Signature(s) of Inventor(s):

*) See the instructions

I have read and understood the invention described in this Invention Report

Date:
Signature of Manager

INSTRUCTIONS FOR COMPLETING THE INVENTION REPORT

This Invention Report form is used in cases where an invention has been made by an employee of the Company. This Invention Report is confidential. Only the Patent Department may make copies of signed Invention Reports in order to request opinions or reply to the inventor(s).

The inventor completes the Invention Report and the description of the invention. The inventor does not fill in the 'Invention Report received' field. This field is filled in by the Patent Department. The Invention Report must have the names of all the inventors and their home addresses. If there is not enough space for all the names, addresses etc, please write them on a separate attachment. The first mentioned inventor is assumed to be the contact person in matters concerning the Invention Report. In the fields of office address, phone and fax, please fill in the contact person's information. Fill in the project field, if the invention is made in a project. The original Invention Report is signed by all inventors. Each page of the original Invention Report is signed by a Manager. In case it is difficult to obtain Manager's signature your Patent Department will take care of it.

It is suggested that the Invention Report and the description of the invention should be filled in as thoroughly as possible. If drawings or other kind of information cannot be attached to this form, they should be delivered separately.

The signed Invention Report is given directly to the local or business unit's Patent Department. Invention Report should also be sent by E-mail to the Patent Department. The Patent Engineer will inform the inventor of receiving the Invention Report. The Patent Engineer will obtain any expert opinions needed to properly evaluate the invention, will procure the Company's decision and inform the inventor accordingly.

I have read and understood the invention described in this Invention Report

Date:
Signature of Manager

DESCRIPTION OF THE INVENTION

Please, describe your invention in the following order. You can enclose the drawings on a separate document.

1. Field and background of the invention

The field of this invention is the Presence Service, and more specifically identifying appropriate application where to pass presence data

The purpose of the invention is to introduce a solution for receiving client how to direct relevant presence information to the application in question.

2. A summary of the invention

The invention proposes a mechanism how the transmitting terminal shall 'mark' presence tuples so that receiving terminal and possibly presence server can identify different parts of the presence information and pass them to the correct application. The proposed solution to the problem is to introduce a application ID field in each tuple. The transmitting application marks a unique identifier to that field which can be recognised in the receiving end. Receiving terminal passes the tuples to the applications identified in the application ID field.

3. Describe the problem which the invention overcomes

The presence service which is being standardised in OMA, 3GPP and IETF is gaining more and more attention. It can be expected that the amount of presence aware application will increase in future. As the number of applications increase it also increases the amount of information that the presence documents will contain. From the receiving terminal perspective the increase of information poses a challenge how to treat the presence information i.e. which parts of the information are relevant to which application(s). More specifically the presence information is structures to tuples in IETF and 3GPP models. The tuple contains a 'random' TUPLE ID which does not have any semantics i.e. it cannot be used describe the purpose of the tuple. In each tuple there can be several attributes. Moreover, different tuples may have attributes that have same name but are intended to be used/interpret differently depending on the receiving application. For example the presence document can contain two tuples (one for game and one for dynamic phonebook) and each of them could contain a status field. The DPB may have been designed to understand status values: available, discreet, not available whereas the game status may be: shooting, dead, paused, lost. From that example it is obvious that status fields have to be delivered to the correct applications that they would have any meaning in the application.

Currently, the only 'mechanisms' to pass the information to the correct applications is try/guess. However, such solution creates lot of unnecessary uncertainty of the success and correctness of the information (as in some cases even the value may be the same for an attribute and then it would be interpret incorrectly as it is interpret in wrong application).

This invention proposes to introduce a new attribute to all tuples called e.g. application ID. The application ID would be unique identifier that will be added to the tuple in the publishing application. In the receiving end the terminal would route according to application ID the information to the correct application which will ensure that information is delivered to correct place and interpret correctly.

4. How was the problem solved earlier?

There has not been any solutions to the problem that authors would be aware of.

I have read and understood the invention described in this Invention Report

Date:
Signature of Manager

5. How does the invention improve earlier solutions? Advantages and disadvantages of the invention?

+ ensures that information is delivered to correct application to be interpret
- the uniqueness of the application ID might require its registration. The implementations can also rely on reasonable probability that some random string does not appear in other applications.

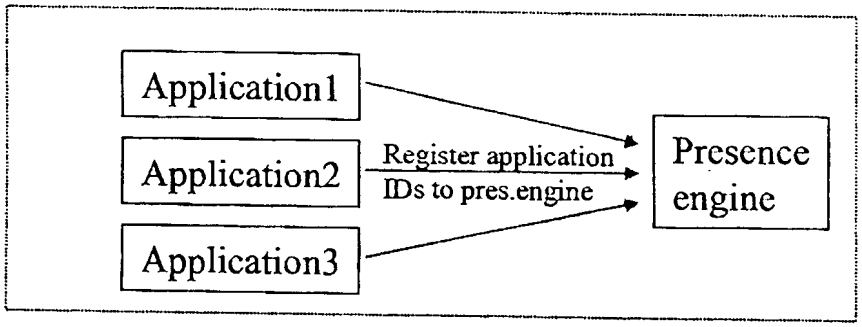
6. Brief description of the drawings (Please enclose drawings and figures of the invention on a separate document)

The 1 step in the figure the applications residing in one terminal (dashed line) register their application Ids to the presence engine in the terminal. After this step applications can start publishing information.

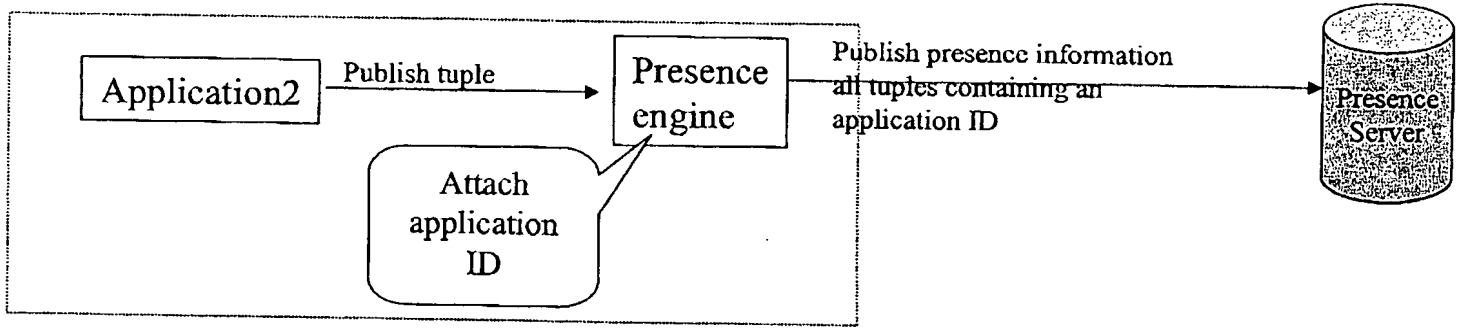
In step 2. each application publishes the information in form of tuple and presence engine attaches (also application can do the attachment) the application ID to each tuple. After that the presence engine forwards the information to the presence server.

In step 3. terminal (presence engine) gets a notify from the presence server of new presence information. According to the application ID (carried in each tuple) the tuples are routed to the corresponding applications.

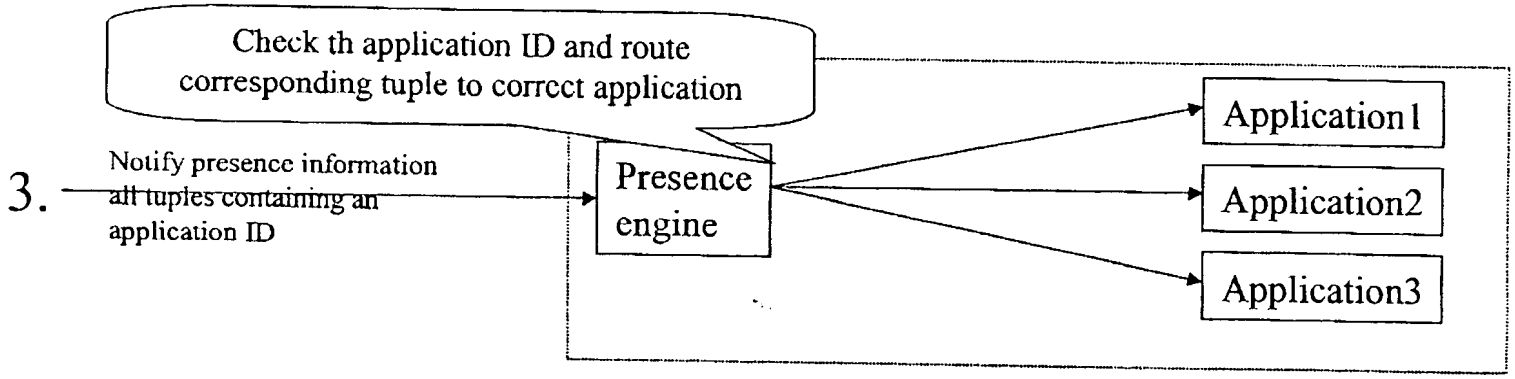
1.


Application1
Application2
Application3
Register application IDs to pres.engine
Presence engine

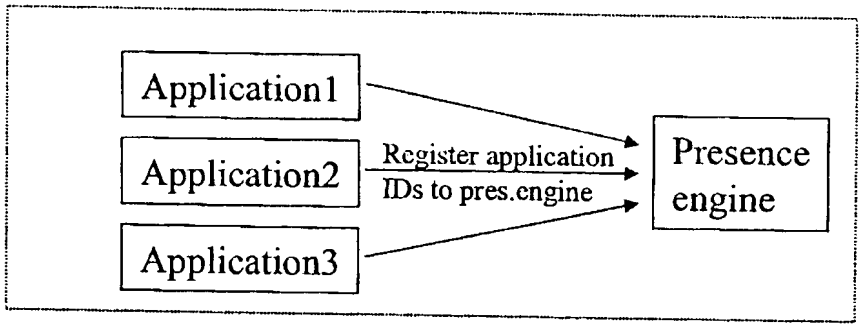
2.


Application2
Publish tuple
Presence engine
Publish presence information all tuples containing an application ID
Presence Server
Attach application ID

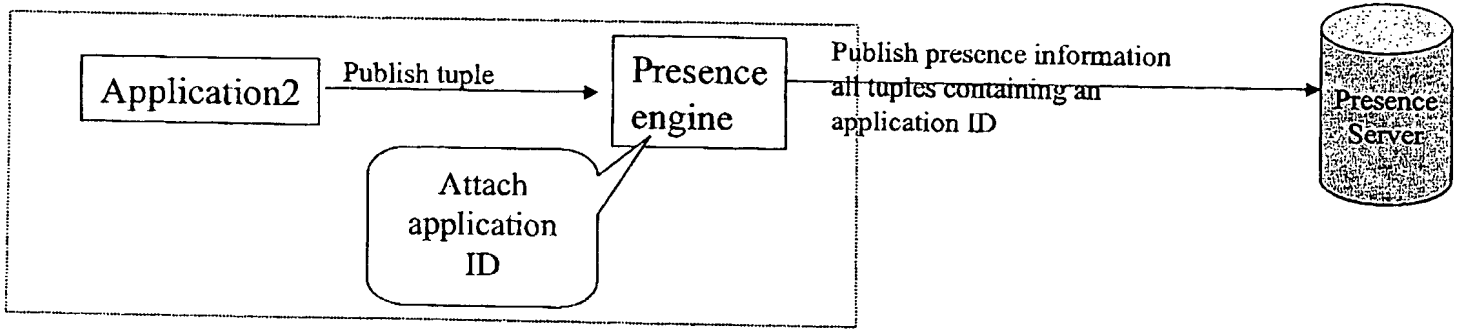
3.


Check th application ID and route corresponding tuple to correct application
Notify presence information all tuples containing an application ID
Presence engine
Application1
Application2
Application3

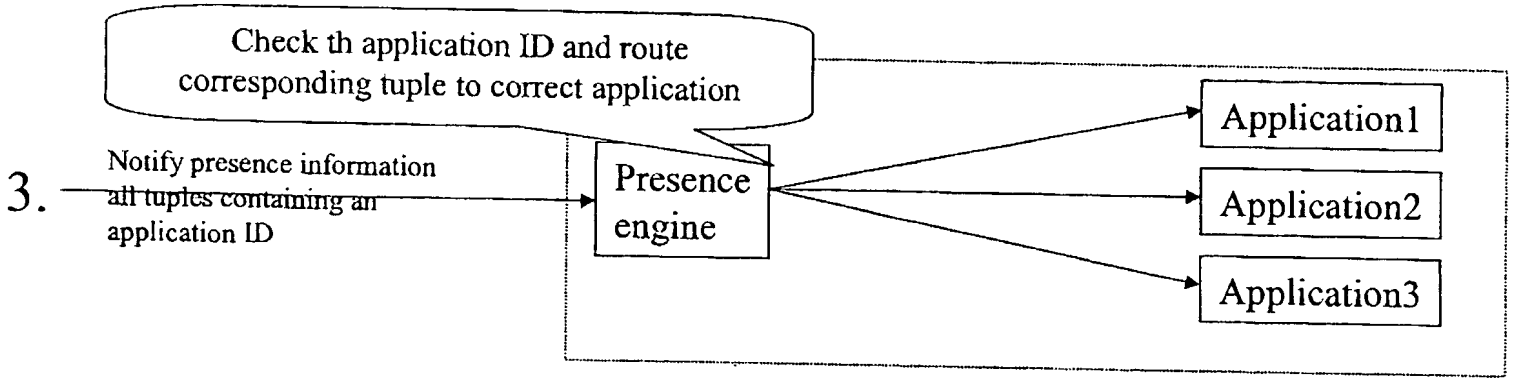
1.


Application1
Application2
Application3
Register application IDs to pres.engine
Presence engine

2.


Application2
Publish tuple
Presence engine
Publish presence information all tuples containing an application ID
Presence Server
Attach application ID

3.


Check th application ID and route corresponding tuple to correct application
Notify presence information all tuples containing an application ID
Presence engine
Application1
Application2
Application3

Submission Form

Case Reference	39624
Submitted by	Leppänen, Eva-Maria (10051483)
Creation Date	
Submission Date	20 Sep 2002
Status	Closed
Proposed Title	APPLICATION ID IN PRESENCE
IP Site	
Export Restriction	

Keywords (8)

Type	Keyword
Invention Category	Service/Content - Infra/Terminal
Nokia Classification	01AD All IP Core Network; 02H SIP based services; 02HA Presence; 19A Service enablers
RATING	4S
Standard	OMA; WCDMA

Attach invention report and other documents (0)

– no data –

Contact(s) (1)

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Action

Please validate the submission by filling the fields below. You can also delegate to another validator or request more information from the submitter.

Validate

Select to validate the invention submission. You can then enter values in the topics underneath, if required.

Provide your validation

Related Market or Technology

Comments

Recommendation

Please provide below your recommendations for future IP decisions.

Recommendation

Comments

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Business Group	Networks

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Business Unit	NRC Nokia Research Center

Business Group ☒ Strategy Renewal & Oper. Excellence

Prior Art Search

Summarize below the prior art search (patent databases or other) and attach related documents in the attach section of the form:

Summary of the technical contents of the invention (Max 4000 characters)

Technical fields / problem solved

Existing solutions and their drawbacks

Novelty features and the benefits

Experts Recommendation

Name of the experts

Is the invention related to an R&D program? (If yes, please specify the program and project)

Is the Invention related to an R&D program? Yes No

Project/Program CN2k+PMG Farrago SIPPING

NRC Category

Other related projects

"Specify below, if you are aware of any in-house or external activities which are similar or have the same subject."

Is the invention based on a joint effort with another company?

Yes No

Company/contract